DOCUMENT 00 90 00 ADDENDUM

ADDENDUM NO. 1 Date: June 20, 2017

RE: WESTERN TECHNICAL COLLEGE

FIRE PROTECTION PACKAGE FOR: CENTER FOR CHILDHOOD EDUCATION

YWCA CHILD CENTER

419 NINTH ST N

LA CROSSE, WISCONSIN 54601

HSR 17021

FROM: HSR Associates, Inc.

100 Milwaukee Street La Crosse, WI 54603 (608) 784-1830

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated June, 2017. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

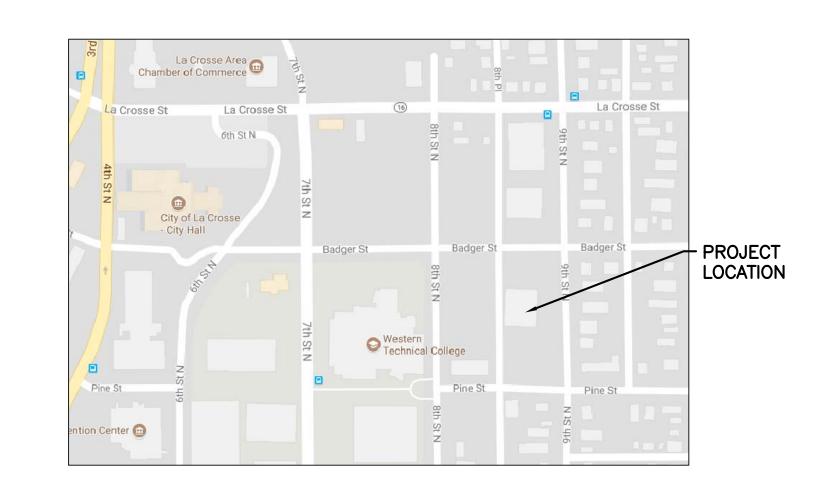
This Addendum consists of [1] typed page and [1] 30 x 42 drawing.

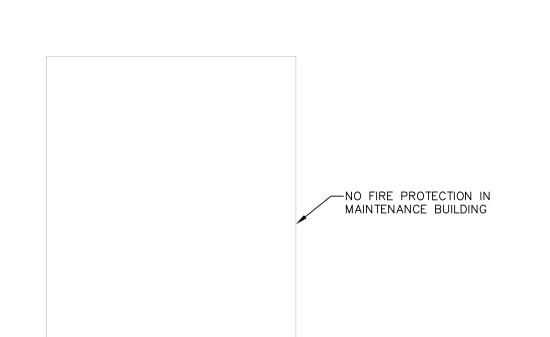
CHANGES TO DRAWINGS:

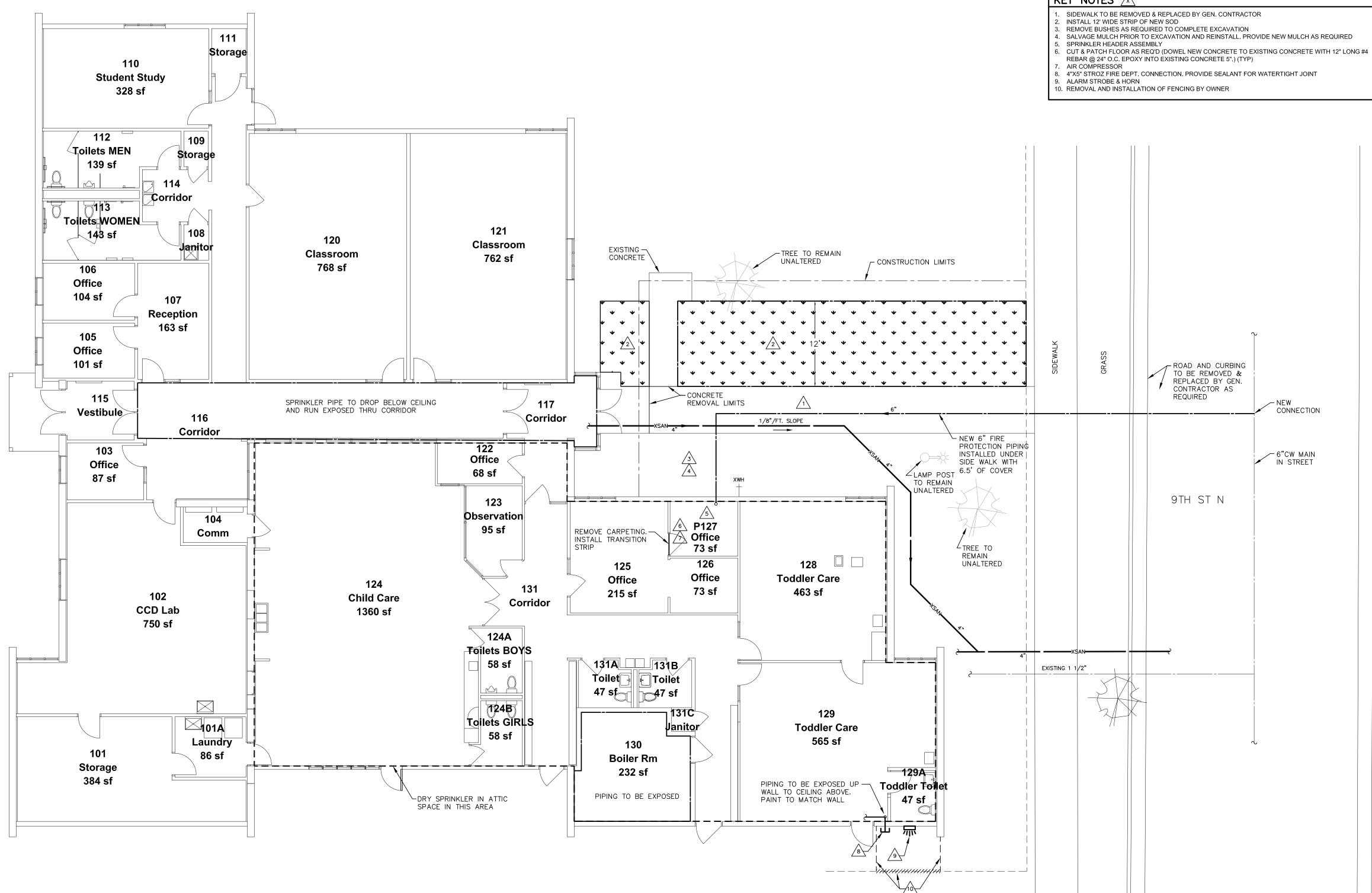
- 1. Sheet FP100R FIRE PROTECTION PLAN 30 x 42 attached hereto
 - a. Drawing reissued with "not for Construction" stamp removed from sheet title.

END OF DOCUMENT 00 90 00

17021 00 90 00 - 1

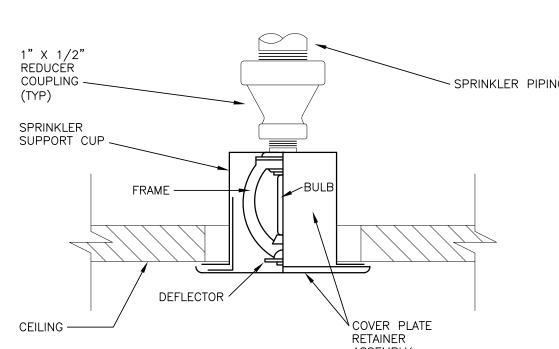






KEY NOTES 🖄

1.08 WARRANTY 1.09 PERMITS AND FEES A. PAY FOR ALL PERMITS, FEES AND CHARGES RELATIVE TO THIS WORK. A. WITNESS ALL TESTS AND COMPILE ALL DOCUMENTATION INCLUDING VERIFICATION OF THE TESTING OF THE ENTIRE SYSTEM. PROVIDING AS-BUILT DRAWINGS. WRITTEN GUARANTEE. PRESSURE/LEAK TESTING OF PIPING.



FIRE SPRINKLER SPECIFICATIONS

PART 1 GENERAL 1.01 RELATED DOCUMENTS

A. CONDITIONS OF THE CONTRACT AND PORTIONS OF DIVISION 00 AND 01 OF THIS PROJECT MANUAL APPLY TO THIS SECTION AS THOUGH REPEATED HEREIN. B. THE REQUIREMENTS OF SECTION 22 05 00 APPLY TO THIS SECTION.

1.02 WORK INCLUDED A, FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND RELATED ITEMS REQUIRED TO COMPLETE THE WORK INDICATED ON DRAWINGS AND/OR SPECIFIED. THE WORK UNDER THIS SECTION INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING WET AUTOMATIC FIRE SPRINKLER SYSTEM. SLEEVES.

INSERTS. QUICK RESPONSE SPRINKLER - UPRIGHT, PENDENT, SIDEWALL, AND CONCEALED IN VARIOUS

QUICK RESPONSE CONCEALED EXTENDED COVERAGE SPRINKLER - PENDENT. a. PENDENT COVERAGE HEADS (LIMITED TO MAX. 324 S.F., 18' X 18' SQUARE COVERAGE PATTERN OR AS PER MANUFACTURER'S LISTING) QUICK RESPONSE EXTENDED COVERAGE (QREC) SPRINKLER - UPRIGHT, PENDENT, SIDEWALL, CONCEALED. SITE OBSERVATIONS AS REQUIRED.

COORDINATION OF WORK WITH ALL OTHER TRADES. SHOP DRAWINGS AND INCLUDING SUBMITTAL TO STATE AUTHORITIES FOR APPROVAL.

). OPERATING INSTRUCTIONS AND VALVE DIAGRAMS. B. THE FOLLOWING MATERIALS, EQUIPMENT AND RELATED ITEMS ARE ALL NEW: STROBE/HORN ANNUNCIATOR.

EXPOSED FIRE DEPARTMENT INLET CONNECTION. DOUBLE CHECK VALVE ASSEMBLY. VALVE SUPERVISORY SWITCHES.

FLOW SWITCHES INSPECTOR'S TEST ASSEMBL'

SPARE SPRINKLER CABINET. . PER NFPA 13, 8.16.3, ALL SPRINKLER SYSTEMS SHALL BE ARRANGED FOR FLUSHING. PROVIDE READILY REMOVABLE FITTINGS AT THE END OF ALL CROSS MAINS. TERMINATE ALL CROSS MAINS IN 1 1/2" OR LARGER PIPE. ARRANGE ALL BRANCH LINES ON GRIDDED SYSTEMS TO FACILITATE

). ALL SPRINKLER PIPING IN FINISHED SPACES SHALL BE CONCEALED IN CHASES, PIPE SHAFTS, SOFFITS, FURRED SPACES, OR WALLS EXCEPT MAY BE EXPOSED IN MAINTENANCE, JANITOR ROOMS, OR MECHANICAL ROOMS. MANUFACTURED VALANCE AND SOFFIT SYSTEMS SPECIFICALLY FOR SPRINKLER PIPE MAY BE APPROVED. ALL COSTS ASSOCIATED WITH PROVIDING ADDITIONAL SOFFITS, CHASES, ETC. NOT SHOWN ON ARCHITECTURAL DRAWINGS SHALL BE INCLUDED IN THIS SECTION OF WORK. ADDITIONAL SOFFITS, CHASES, ETC. MUST MEET A/E APPROVAL. .04 QUALITY ASSURANCE

A. ALL INSTALLATION WORK UNDER THIS SECTION BY A QUALIFIED FIRE PROTECTION

SUBCONTRACTOR. PROVIDE A/E WITH THE NAME OF THE COMPANY INDIVIDUAL DESIGNATED AS "QUALIFIER" FOR STATE OF WISCONSIN, WHO HAS SUCCESSFULLY COMPLETED THE "FIRE SPRINKLER CONTRACTOR'S EXAM". OTHER SPRINKLER FITTERS, DOING WORK IN WISCONSIN SHALL BE LICENSED JOURNEYMAN

FITTERS OR INDENTURED APPRENTICES B. DESIGN SHALL BE COMPLETED AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER OR DESIGNER OR NICET (NATIONAL INSTITUTE OF CERTIFIED ENGINEERING TECHNICIANS) CERTIFIED. . SIZE SPRINKLER SYSTEM(S) BY HYDRAULIC CALCULATIONS. . PROVIDE AN AUTOMATIC FIRE SPRINKLER SYSTEM(S) COMPLYING WITH NFPA 13.

E. COMPLY WITH APPLICABLE STANDARDS. F. WET SPRINKLER SYSTEM(S) SHALL NOT BE INSTALLED IN AREAS SUBJECTED TO FREEZING TEMPERATURES. 3. LOCATION OF SPRINKLERS AND / OR PIPING SOFFITS / ETC. WILL BE SUBJECT TO THE A/E AND / OR OWNER APPROVAL

A. LOCAL AND STATE CODES. B. INTERNATIONAL BUILDING CODE

1.05 REGULATORY REQUIREMENTS

C. INTERNATIONAL FIRE CODE. D. NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS (LATEST EDITION). NO. 13 - SPRINKLER SYSTEMS.

HAZARD CLASSIFICATION DEFINITIONS: (NFPA 13, CHAPTER 1) COMBUSTIBILITY QUANTITY HEAT RELEASE STORAGE OF CONTENTS OF CONTENTS RATE LIGHT LOW LOW

MODERATE MODERATE 8' MAX. ORDINARY GROUP 1 LOW ORDINARY GROUP 2 MODERATE-HIGH MODERATE-HIGH 12'MAX. EXTRA GROUP 1 VERY HIGH VERY HIGH HIGH EXTRA GROUP 2 VERY HIGH VERY HIGH HIGH E. INSURANCE SERVICES OFFICE - COMMERCIAL RISK (IF APPLICABLE - CONSULT OWNER).

F. COMPLY WITH THE MOST STRINGENT REQUIREMENTS OF APPLICABLE STANDARDS. G. WHERE AUTOMATIC FIRE SPRINKLER SYSTEMS ARE TO BE INSTALLED OR ALTERED. SPRINKLER PLANS AND SPECIFICATIONS SHALL BE PRESENT AT THE JOB SITE AND MADE AVAILABLE, UPON REQUEST, TO THE DEPARTMENT, ITS AGENT OR LOCAL GOVERNMENTAL AGENCIES EXERCISING JURISDICTION 06 SUBMITTALS

A. SUBMIT DESCRIPTIVE PRODUCT DATA DESCRIBING ALL MATERIAL FURNISHED UNDER PART 2 OF THIS SECTION. B. SUBMIT SEVEN (7) BLUE LINE PRINTS PER NFPA 13 OF COMPLETE WORKING PLANS. SHOP DRAWINGS, HYDRAULIC CALCULATIONS AND MANUFACTURER'S DATA ON DEVICES AND ETC., INDICATING BY MODEL AND NUMBER TO BE USED, TO THE ARCHITECT FOR REVIEW AND APPROVAL.

CONTRACTOR SHALL OBTAIN STATE APPROVAL AND SUBMIT COPY TO A/E. CONTRACTOR SHALL OBTAIN FIRE DEPARTMENT APPROVAL AND SUBMIT COPY TO A/E. NO WORK SHALL COMMENCE UNTIL ALL APPROVALS HAVE BEEN OBTAINED. CONTRACTOR TO ALLOW SUFFICIENT TIME FOR THE APPROVALS. NOTE THE WORK IN THE BUILDING IS PHASED, SEE

PREPARE SHOP DRAWINGS AT MINIMUM SCALE OF 1/8" = 1'-0" (1:100) FOR PLANS AND 1/4" = 1'-0" (1:50) FOR DETAILS. SHOW ALL PIPING, SPRINKLERS, HANGERS, ROOF CONSTRUCTION, OCCUPANCY OF EACH AREA, ASSUMED AREA OF OPERATION, CEILING AND ROOF HEIGHTS INSTALLATION SHALL BE BASED ON ALL OF THE LATEST ARCHITECTURAL, STRUCTURAL, HEATING AND VENTILATING, PLUMBING AND ELECTRICAL DRAWINGS. ANY FIELD MODIFICATIONS REQUIRED

DUE TO INSUFFICIENT COORDINATION SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION . MAINTAIN AT THE SITE AN UP-TO-DATE MARKED SET OF AS-BUILT DRAWINGS WHICH SHALL BE CORRECTED AND DELIVERED TO THE ARCHITECT UPON COMPLETION OF THE WORK.

. AT THE COMPLETION OF THE WORK PROVIDE A SMALL PLAN OF BUILDING INDICATING THE LOCATIONS OF ALL CONTROL VALVES, LOW POINT DRAINS AND INSPECTOR'S TEST. THE PLANS SHALL BE NEATLY DRAWN, FRAMED UNDER GLASS AND PERMANENTLY MOUNTED ON THE WALL ADJACENT TO SPRINKLER RISER. E. CERTIFICATE OF COMPLIANCE: CONTRACTORS MATERIAL AND TEST CERTIFICATE.

1.07 DELIVERY, STORAGE AND HANDLING A. DELIVER MATERIALS TO JOB SITE, UNLOAD AND STACK IN LOCATION DETERMINED BY GENERAL

A. FURNISH TO THE ARCHITECT AT THE COMPLETION OF THIS WORK, A WRITTEN GUARANTEE (IN TRIPLICATE) STATING THAT ALL EQUIPMENT. MATERIALS AND WORK PERFORMED ARE IN FULL ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE GUARANTEE SHALL ALSO STATE THAT THIS WORK AND ALL SUBSEQUENT CHANGE ORDERS, ARE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND ANY EQUIPMENT, MATERIALS, OR WORKMANSHIP WHICH MAY PROVE DEFECTIVE WITHIN THAT TIME WILL BE REPLACED AT NO COST

FIRE SPRINKLER SPECIFICATIONS

BRANCH LINES, RISER NIPPLES AND SPRIGS.)

MANUFACTURER MEET THE ABOVE CRITERIA.

2"-2.203", 2 1/2"-2.703", 3"-3.314", 4"-4.31")

ALLIED TUBE & CONDUIT SPECIFICATION:

ATMOSPHERE SHALL BE GALVANIZED.

PENETRATION SYSTEMS WITH THE PIPE.

(TYPE 10), 1/2" - 8" (DN15-DN200) PIPE SIZES.

ORDINARY HAZARD OCCUPANCIES.

ORDINARY HAZARD OCCUPANCIES.

LIGHT HAZARD OCCUPANCIES.

LISTED FM APPROVED DRY VALVES.

2.05 AIR COMPRESSOR

PART 3: EXECUTION

PIPING, PROVIDE A DRAIN VALVE

SPRINKLERS ARE USED.

NFPA NO. 13.

04 CEILING AND WALL PLATES

3.06 TESTING PIPE

3.05 SPRINKLER GUARDS AND SHIELDS

USED TO MAINTAIN TEST PRESSURE.

3.07 ADJUSTING AND CLEANING

BY THIS WORK.

SHALL BE SUPPORTED BY A PIPE HANGER.

NECESSARY DUE TO DUCT INTERFERENCES, ETC.

AND TEMPERATURE RATINGS ARE CORRECT.

B. PROVIDE ALL AUXILIARY DRAINS WHERE NECESSARY.

PLUGS USED FOR AUXILIARY DRAINS SHALL BE BRASS.

1 1/2"-1 639", 2"-2 104")

CORPORATION, UL LISTING,

WITH ANSI B18.2.

2.03 HANGERS

SYSTEMS.

2.04 SPRINKLERS

PART 2: PRODUCTS

2.01 MATERIALS A. THE NAMING OF MANUFACTURERS IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED AS ELIMINATING THE MATERIALS, PRODUCTS OR SERVICES OF OTHER MANUFACTURERS AND SUPPLIERS HAVING APPROVED EQUIVALENT ITEMS. 3. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, MANUFACTURED IN THE UNITED STATES, AND APPROVED/LISTED BY UNDERWRITERS' LABORATORIES, INC. (UL) WHERE APPLICABLE.

a. ALLIED DYNA-FLOW, ASTM A795 TYPE E, GRADE A, 300 PSI W.P., UL LISTED, FM APPROVED, ULC

LISTED. (ID 11% > THAN SCH-40 & 7% > THAN SCH-10). (ID=1"-1.191", 1 1/4"-1.536", 1 1/2"-1.728",

b. ALLIED DYNA-THREAD, ASTM A135, GRADE A, 300 PSI W.P., UL & ULC & FM APPROVED FOR FIRE

STAINLESS STEEL BRAIDED HOSE SPRINKLER HEAD CONNECTORS MANUFACTURED BY FLEX-ARM

. ALL BLACK STEEL PIPE MUST BE PRE-OXIDIZED WITH A SUITABLE PROTECTIVE COATING. SPRINKLER PIPING AND FITTINGS THAT ARE EXPOSED TO THE WEATHER, OR USED IN A CORROSIVE

GASKETS FOR FLANGED FITTINGS SHALL BE FULL FACE OF 1/8" (3,175 MM) MINIMUM THICKNESS RED

SHEET RUBBER. FLANGE BOLTS SHALL BE HEXAGON HEAD MACHINE BOLTS WITH HEAVY

SEMI-FINISHED HEXAGON HEAD NUTS, CADMIUM PLATED, HAVING DIMENSIONS IN ACCORDANCE

. BLAZEMASTER CPVC FIRE SPRINKLER SYSTEM. CAN ONLY BE USED IN ACCORDANCE WITH NFPA 13,

ASTM F442 AND THEIR LISTING - LIGHT HAZARD ONLY. MAY NOT BE PAINTED. CANNOT BE

INSTALLED IN EXPOSED STRUCTURE (BAR JOIST) SUCH AS A GYMNASIUM. MUST HAVE SMOOTH

CEILING. CAN BE USED IN LIGHT HAZARD OCCUPANCY AREAS AND SOME ORDINARY HAZARD

OCCUPANCY AREAS OF SCHOOLS. ENSURE COMPATIBILITY OF CAULKS AND RATED FIRE

SPACING OF HANGERS TO BE AS FOLLOWS, UNLESS OTHERWISE STATED: 12' (3.6576 M) APART FOR

1" (DN25) AND 1 1/4" (DN32) PIPE SIZE AND 15' (4.572 M) APART FOR 1 1/2" (DN40) PIPE AND LARGER.

EXPANSION SHIELDS IN VERTICAL POSITION MAY SUPPORT PIPES 4" (DN100) OR LESS IN DIAMETER.

FXPANSION SHIELDS IN VERTICAL POSITION USED TO SUPPORT PIPES 5" (DN125) OR LARGER SHALL

CONVENIENT STRUCTURAL MEMBERS, EXPANSION SHIELDS MAY BE USED BUT SPACED NOT MORE

CONTINUOUS THREADED RODS SHALL BE USED WHEREVER POSSIBLE AND SHALL BE CADMIUM

ADJUSTABLE SWIVEL RING HANGER, ELECTRO-GALVANIZED (PLATED) LOW CARBON STEEL WITH

STEEL KNURLED INSERT, UL LISTED, FM APPROVED, FED. SPEC. WW-H-171E (TYPE 10), MSS SP-69

BEAM CLAMP, MALLEABLE IRON WITH HARDENED STEEL CUP POINT SET SCREW AND LOCKNUT, STANDARD OR WIDE THROAT, UL LISTED, FM APPROVED, FED. SPEC. WW-H-171E AND MSS SP-69

. OTHERS PER NFPA, NOTE THAT NFPA HAS SPECIFIC HANGER REQUIREMENTS FOR CPVC PIPING

UPRIGHT/PENDENT: TYCO CENTRAL SERIES TY-FRB, QUICK RESPONSE - STANDARD COVERAGE, 2.8,

4.2. 5.6. 8.0 K-FACTOR, DECORATIVE 3 MM GLASS BULB. 175 PSI MAX, W.P., TEMPERATURE RATINGS

HORIZONTAL/VERTICAL SIDEWALL: TYCO CENTRAL SERIES TY-FRB. QUICK RESPONSE - STANDARD

RATINGS OF 135°, 155°, 175°, 200°F, WHITE POLYESTER COATED, 1/2" NPT, TWO-PIECE STYLE 10 OR

STYLE 20 ESCUTCHEON, ESCUTCHEON FINISH TO BE WHITE COLOR, LISTED BY U.L. FOR LIGHT OR

TEMPERATURE RATINGS OF 155°, 200°F, TWO-PIECE FLAT COVER PLATE/SUPPORT CUP ASSEMBLY.

PENDENT CONCEALED IN SUSPENDED ACOUSTICAL CEILINGS: TYCO CENTRAL SERIES RFII. QUICK

RESPONSE - STANDARD COVERAGE, 5,6 K-FACTOR, DECORATIVE 3 MM GLASS BULB, 175 PSI MAX,

ASSEMBLY, FINISH TO BE SELECTED FROM MANUFACTURER STANDARDS, MINIMUM 10 COLORS,

UPRIGHT/PENDENT: TYCO CENTRAL SERIES EC-5, EC-8, EC-11, EC-14, QUICK RESPONSE - EXTENDED

COVERAGE, DECORATIVE GLASS BULB, 175 PSI MAX, W.P., TEMPERATURE RATINGS AS REQUIRED,

HORIZONTAL SIDEWALL/RECESSED HORIZONTAL SIDEWALL: TYCO CENTRAL SERIES SW-20, SW-24,

TEMPERATURE RATINGS AS REQUIRED, WHITE POLYESTER COATED; TWO-PIECE ESCUTCHEON,

TEMPERATURE RATINGS OF 155°, 200°F, TWO-PIECE FLAT COVER PLATE/SUPPORT CUP ASSEMBLY,

FINISH TO BE "OFF-WHITE" COLOR (TYCO ITEM #000567925135), LISTED BY U.L. FOR LIGHT HAZARD

PENDENT CONCEALED IN SUSPENDED ACOUSTICAL CEILINGS: TYCO CENTRAL SERIES RFII, QUICK

RESPONSE - EXTENDED COVERAGE, 5.6 K-FACTOR, DECORATIVE 3 MM GLASS BULB, 175 PSI MAX.

ASSEMBLY, FINISH TO BE "FLAT-WHITE" COLOR (TYCO ITEM #000567920135), LISTED BY U.L. FOR

PROVIDE AIR COMPRESSOR SPECIFICALLY APPROVED FOR A DRY SPRINKLER SYSTEM WITH UL

. COMPRESSOR SHALL MAINTAIN THE REQUIRED OPERATING PRESSURE ON THE DRY SYSTEM AND

3. PROVIDE A 120 VOLT ELECTRICAL CONNECTION TO A NON-SWITCHED DEDICATED ELECTRICAL

A CHECK VALVE OR OTHER POSITIVE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED IN THE

AIR SUPPLY TO EACH SYSTEM TO PREVENT AIRFLOW OR WATERFLOW FROM ONE SYSTEM TO

. WHERE THE AIR COMPRESSOR FEEDING THE DRY PIPE SYSTEM HAS LESS CAPACITY THAN THE DISCHARGE THROUGH A 1/8 IN. ORIFICE AT 10 PSIG, NO AIR MAINTENANCE DEVICE SHALL BE

. A LISTED RELIEF VALVE SHALL BE PROVIDED BETWEEN THE COMPRESSOR AND CONTROLLING

. AUTOMATIC AIR SUPPLY TO MORE THAN ONE DRY PIPE SYSTEM SHALL BE CONNECTED TO ENABLE

3. PROVIDE VICTAULIC FIRELOCK NXT DRY VALVE SERIES 768 OR EQUIVALENT PER OWNER REQUEST.

A. ALL PIPING MUST BE SUBSTANTIALLY SUPPORTED FROM BUILDING STRUCTURE AND ONLY

APPROVED TYPE HANGERS SHALL BE USED. PIPING UNDER DUCTS SHALL NOT BE SUPPORTED FROM DUCTWORK BUT SHALL BE SUPPORTED FROM BUILDING STRUCTURE WITH TRAPEZE

HANGERS WHERE NECESSARY OR FROM STEEL ANGLES SUPPORTING DUCTWORK IN

ACCORDANCE WITH NFPA NO. 13. THE INTERIOR SURFACES OF ALL PIPING AND EQUIPMENT SHALL

BE CLEAN AND FREE OF ALL DIRT, LOOSE SCALE, RUST, AND OTHER FOREIGN MATERIAL BEFORE

. INSTALL SPRINKLER PIPING AS HIGH AS POSSIBLE USING NECESSARY FITTINGS AND AUXILIARY

SYSTEM SHALL BE DESIGNED TO COMPLETELY DRAIN, EXCEPT IN TRAPPED PIPING THAT CAN BE

DRAINED BY REMOVING A SINGLE PENDENT SPRINKLER. WHEN OVER FIVE GALLONS IS TRAPPED IN

ARM-OVERS IN STEEL PIPING SYSTEMS MORE THAN 24 INCHES IN LENGTH FROM THE BRANCH

. ONE-PIECE REDUCING FITTINGS SHALL BE USED WHEREVER A CHANGE IS MADE IN PIPE SIZE.

BUSHINGS SHALL NOT BE PERMITTED UNLESS FITTING IS NOT AVAILABLE OR WHERE TEMPORARY

. SEE SECTION 07 84 00 FOR REQUIREMENTS WHEN PENETRATING INTO OR THROUGH REQUIRED

FIRE-RESISTIVE ASSEMBLIES, FIRE PROTECTIVE MEMBRANES, THERMAL BARRIERS, OR CONSTRUCTION PROVIDING A FINISH RATING AS AN ALTERNATIVE TO A FIRE RESISTIVE ASSEMBLY.

A. SPRINKLERS ON EXPOSED PIPING SHALL BE BRONZE UPRIGHT TYPE, IN UPRIGHT POSITION EXCEPT

BRONZE PENDENT TYPE IN PENDENT POSITION MAY BE USED ON WET PIPE SYSTEMS WHERE

. SIDE WALL SPRINKLERS SHALL BE USED WITH SUPPLY PIPING CONCEALED IN WALLS AND ONLY INSTALLED WHERE OTHER SPRINKLERS CANNOT BE USED TO PROTECT CERTAIN AREAS.

WHEN THE LIGHT FIXTURES EXTEND BELOW THE CEILING, THE PENDENT SPRINKLERS SHALL BE SPACED SO THAT THE SPRINKLER SPRAY PATTERN IS NOT OBSTRUCTED IN ACCORDANCE WITH

. DURING INSTALLATION OF SPRINKLERS, VERIFY THAT THE MODEL NUMBER, STYLE, ORIFICE SIZE

C. PIPE ALL DRAINS AND AUXILIARY DRAINS DISCHARGING TO OUTSIDE ATMOSPHERE TO LOCATION WHERE WATER DRAINED WILL NOT DAMAGE EQUIPMENT, VEHICLES, PLANTED AREAS, ETC. OR

. PROVIDE MAIN DRAIN TEST CONNECTION AT LOCATION THAT WILL PERMIT FLOW TEST OF WATER SUPPLY. RECORD STATIC AND RESIDUAL PRESSURES. PIPE DISCHARGE TO LOCATION THAT WILL

A. INSTALL CEILING AND WALL PLATES WHEREVER EXPOSED PIPING PASSES THROUGH CEILINGS AND

A. PROVIDE GUARDS ON SPRINKLERS WHICH ARE WITHIN 7'-0" (2.13 M) OF FINISHED FLOOR OR WHERE

A. TEST ALL PIPING FOR A PERIOD OF TWO HOURS, AT A HYDROSTATIC PRESSURE OF 200 LBS. AND

). HYDROSTATIC PUMP IS COMMONLY USED TO DEVELOP AND MAINTAIN THE 200 PSI TEST PRESSURE.

3. MAINTAIN THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED

B. NOTIFY ARCHITECT'S REPRESENTATIVE IN ADVANCE REGARDING TIME AND DATE OF ALL TESTS.

. OVERHEAD PIPING SHOULD BE TESTED BEFORE BEING CONCEALED BY DROP CEILINGS. ETC.

ALL DRAIN PIPING DOWNSTREAM OF DRAIN VALVE SHALL BE GALVANIZED AND TERMINATING

ESCUTCHEON PLATE THICKNESS SHALL NOT EXCEED 1/2" (12.7 MM) MAXIMUM DEPTH.

CONFIRM CEILING TYPES WITH GENERAL CONTRACTOR PRIOR TO SPRINKLER SELECTION.

A. PROVIDE DRAIN VALVES AND EXTEND TO FLOOR DRAINS OR GRADE.

OUTSIDE WITH A CAST BRASS 45-DEGREE ELBOW TIGHT TO WALL.

SPRINKLERS MAY BE SUBJECT TO MECHANICAL DAMAGE.

ALL PIPING, VALVES, HEADS, ETC. SHALL BE WATERTIGHT.

ALLOW VALVE TO BE FULLY OPENED WITHOUT CAUSING WATER DAMAGE.

WALLS. (NOTE THAT PLASTIC ESCUTCHEONS OR PLATES ARE NOT ACCEPTABLE.)

VALVE AND SHALL BE SET TO RELIEVE AT A PRESSURE 10 PSI IN EXCESS OF THE OPERATING AIR

W.P., TEMPERATURE RATINGS OF 155°, 200°F, TWO-PIECE FLAT COVER PLATE/SUPPORT CUP

165°F SPRINKLER TEMPERATURE RATING OR AS OTHERWISE REQUIRED.

BE CAPABLE OF FULL RECOVERY WITHIN 30 MINUTES OF AN EMERGENCY.

CONNECTION AND EQUIP WITH AN HOURLY RUN METER.

INDIVIDUAL MAINTENANCE OF AIR PRESSURE IN EACH SYSTEM.

DRAINS TO MAINTAIN MAXIMUM CLEAR HEAD ROOM, 7'-0" (2.13 M) MINIMUM.

QUICK RESPONSE - EXTENDED COVERAGE, DECORATIVE GLASS BULB, 175 PSI MAX. W.P.,

PENDENT CONCEALED IN WOOD CEILINGS: TYCO CENTRAL SERIES RFII, QUICK RESPONSE

EXTENDED COVERAGE, 5.6 K-FACTOR, DECORATIVE 3 MM GLASS BULB, 175 PSI MAX, W.P.,

W.P., TEMPERATURE RATINGS OF 155°, 200°F, TWO-PIECE FLAT COVER PLATE/SUPPORT CUP

THAT BEST MATCHES THE SURFACES THE HEADS ARE INSTALLED IN, 1/2" NPT, LISTED BY U.L.

OF 135°, 155°, 175°, 200°, 286°F, NATURAL BRASS FINISH, 1/2" NPT, LISTED BY U.L. FOR LIGHT OR

COVERAGE 5.6 K-FACTOR DECORATIVE 3 MM GLASS BULB 175 PSI MAX W.P. TEMPERATURE

PENDENT CONCEALED IN WOOD CEILINGS: TYCO CENTRAL SERIES RFII, QUICK RESPONSE -

STANDARD COVERAGE, 5.6 K-FACTOR, DECORATIVE 3 MM GLASS BULB, 175 PSI MAX. W.P.,

FINISH TO BE "OFF-WHITE" COLOR (TYCO ITEM #000567925135), 1/2" NPT, LISTED BY U.L.

ALTERNATE WITH HANGERS CONNECTED DIRECTLY TO STRUCTURAL MEMBERS. (IN ABSENCE OF

PLATED EXCEPT ABOVE SUSPENDED CEILINGS. SIZE SHALL CONFORM TO NFPA NO. 13.

(TYPE 19 AND 23) TOP OR BOTTOM BEAM USE, 3/8" (9.5 MM) AND 1/2" (12.7 MM) ROD SIZES.

A. ALL HANGER COMPONENTS SHALL BE OF THE LISTED AND APPROVED TYPE.

3. BELOW CONCRETE CONSTRUCTION: INSERTS MAY BE USED.

A. QUICK RESPONSE STANDARD COVERAGE TYPE FIRE SPRINKLERS:

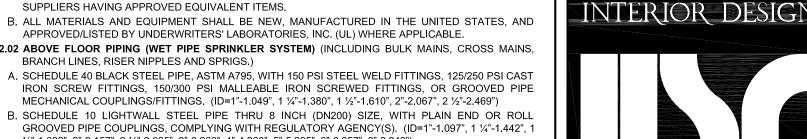
PRINKLER FINISH TO BE NATURAL BRASS; LISTED BY U.L

ESCUTCHEON FINISH TO BE WHITE COLOR, LISTED BY U.L.

SPRINKLER SYSTEMS, DIAMOND COAT EXTERIOR ACRYLIC FINISH, NO THREAD GAUGE

WARNINGS, STD. HANGER SPACING. (ID IS UP TO 3.6% > THAN SCH-40). (ID=1"-1.08", 1 1/4"-1.408",

½"-1.682", 2"-2.157", 2 ½"-2.635", 3"-3.260", 4"-4.260", 5"-5.295", 6"-6.357", 8"-8.249")



SPRINKLER PIPE COMPLYING WITH ASTM A795 AND/OR A135. AND IS UL LISTED AND FM APPROVED. ALL PIPE SHALL HAVE A MINIMUM CORROSION RESISTANCE RATIO; CRR = 1.00 OR GREATER, AS PER HSR ASSOCIATES INC UL LISTINGS. ALL PIPING SHALL BE BLACK CARBON STEEL. SPRINKLER CONTRACTOR SHALL SUPPLY MILL CERTIFICATES VERIFYING THAT THE PRODUCTS SUBMITTED FROM THE 100 MILWAUKEE STREET

LA CROSSE, WISCONSIN PHONE: 608.784.1830 FAX: 608.782.5844 WEB SITE: www.hsrassociates.com Consultant:

SR Project Number: Project Date **June 2017**

- ADDENDUM 1

~~~~~ Addendum #1

THE A/E SHOULD BE CONSULTED PRIOR TO THE TEST IF ANOTHER METHOD IS PLANNED TO BE A. THE CONTRACTOR SHALL BE RESPONSIBLE DURING THE INSTALLATION AND TESTING PERIODS OF THE SPRINKLER SYSTEM FOR ANY DAMAGE TO THE WORK OF OTHERS. TO THE BUILDING, ITS Graphic Scale: CONTENTS, ETC, CAUSED BY LEAKS IN ANY EQUIPMENT, BY UNPLUGGED OR DISCONNECTED PIPES. **VARIES** FITTINGS, ETC, OR BY OVERFLOW AND SHALL PAY FOR THE NECESSARY REPLACEMENTS FOR REPAIRS TO WORK OF OTHERS, BUILDING CONTENTS, EQUIPMENT, OR LANDSCAPE DAMAGED BY Last Update:

6/20/2017